CHIRAG JAIN

Al Engineering Manager | Al Architect | Principal Data Scientist

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SUMMARY

Data Science Leader with 15+ years' experience (11 full-time, 4 freelance) designing, deploying, and scaling ML, DL, and LLM-based solutions across diverse industries. Currently focused on **Generative AI**, with deep expertise in GPT, LLMs, and Al Agents to accelerate innovation and deliver measurable business impact. Proven track record of helping organizations achieve both topline growth and bottom-line efficiency.

EXPERIENCE

Data Science Manager - Al Architect

Bain & Company - NPS Prism

苗 04/2024 - Present

- · Led and built a high-performing AI team (8 Data Scientists, 2 Data Engineers) to modernize NPS Prism with Al-driven automation, deploying scalable solutions using **Docker and Kubernetes**
- Built **Text-to-SQL** solutions using Generative Al/LLMs fine-tuned on domain-specific schemas, improving query accuracy by 30-40% and enabling self-service analytics across business teams
- Designed and deployed multi-domain RAG chatbots fine-tuned with LoRA, integrated with n8n, LangGraph, and CrewAI for workflow orchestration and multi-agent collaboration, using MCP for context exchange
- Improved survey data quality by detecting **fraudulent** and low-value responses through Al-based content validation, saving \$4M annually and enabling more reliable insights
- Implemented RLHF pipelines to optimize LLM responses for businessspecific tasks, aligning model outputs with analyst preferences and improving factual accuracy and relevance by 25%



citi Data Science Manager (AVP)

Citi

= 02/2023 - 04/2024

- · Managed a team of 7 data scientists to architect and deploy a GenAlpowered voice analytics pipeline leveraging speech-to-text models, LLMs, and **embedding-based clustering** to process 50M+ customer calls and extract complaint themes, sentiment, and intent at scale
- Optimized end-to-end LLMOps workflows using Docker, Kubernetes, and CI/CD for scalable model training and deployment, enabling targeted Al-driven interventions that reduced complaint volume and delivered \$14M in cost savings and \$72M in incremental revenue
- Data Size 12 million calls per year, 30 million customers & 2 billion touchpoints | | Tech Stack - OpenAl's Whisper, BERT-based QnA, Flan T5 & Llama



Research Data Science Manager (AVP)

Barclays Investment Bank

= 01/2022 - 12/2022

- Led and managed a team of 5 research data scientists to develop **deep** learning models (LSTMs and transformer-based architectures) that analyzed news articles and quarterly reports to quantify their influence on stock price movements
- Authored two research papers for Barclays Data & Investment Science, exploring the use of Natural Language Processing to predict stock prices
- Data Size 500 million news articles, 600 billion market data points | | Tech Stack - Python, PySpark, Azure, NLP, Transformers, LLMs, Topic Modeling, Regressions, Neural Networks

EDUCATION



Bachelor of Technology (B.Tech)

National Institute of Technology (NIT) Kurukshetra

= 2010 - 2014



Post Graduate Diploma - Data Science (Gen AI)

> **International Institute of Information Technology (IIIT) Bangalore**

= 2024 - 2025



Master of Science (MS) - Gen Al **Liverpool John Moores University**

Ongoing

SKILLS

Management Skills

Leadership, Strategic Planning, Decision Making, Time Management, Sprint Planning, Crisis Management, Resource Allocation, Budgeting, Team Hiring & Development

Artificial Intelligence - AI (LLMs & Agents)

Llama, OpenAl, LangChain, AutoGPT, Hugging Face, BabyAGI, CrewAI, AutoGen, GPT, BERT, Flan T5, Claude, Mistral, Gemini, RAG, Fine-Tuning, **Prompt Engineering**

Machine Learning & Deep Learning

Supervised & Unsupervised Learning, Neural Networks, Reinforcement Learning, Computer Vision, Time Series Forecasting, Natural Language Processing (NLP)

Programming

Python, PySpark, Scala, SQL, HTML, MATLAB, SAS, R, JavaScript

Analytics

Statistics, A/B testing, Tableau, Power BI, Excel, Power Point, Cohort & Retention Analysis, Funnel Analysis

Data Engineering

Apache Airflow, dbt (Data Build Tool), Kafka, Flink, Apache Beam, Informatica, Talend, AWS Glue

MLOps & LLMOps

Docker, Kubernetes, Git, SageMaker, Lambda, S3, EC2, ML Studio, MLflow, TensorFlow Serving, Weights & Biases, Vector Database

EXPERIENCE



Lead Applied Data Scientist

dunnhumby (part Of Tesco Group)

= 10/2018 - 01/2022

- Worked on big retail transaction-level datasets to develop and implement ML/DL models to identify optimal Pricing, Promotion, & Assortment strategies for leading global retailers in the world
- Built a recommendation system for Tesco to identify top personalized offers for users, leveraging collaborative filtering, user-item embeddings, and purchase history analytics
- Data Size ~100 billion item level transactions per year | | Tech Python, PySpark, GCP



Senior Data Scientist

Tredence

09/2015 - 09/2018

- Developed machine learning classification models to classify 3M SKUs into predefined product hierarchy
- Built unified customer profiles using demographic segmentation and behavioral clustering
- Designed and enhanced multiple dashboards for a leading retailer tracking customer experience metrics



Data Scientist

Forgify 3D Tech

= 07/2014 - 09/2015

- Improved performance accuracy by 25% through creating 20+ dashboards for real-time metric tracking.
- Improved ROAS by 20% by optimizing spending across 3 marketing channels.



Freelance Data Scientist

Codementor

= 07/2010 - 06/2014

- Completed 300+ Data Science projects with an average rating of 4.98/5
- Profile Link https://www.codementor.io/@chiirag
- Developed and delivered 150+ projects using various ML/DL techniques
- Created 50+ dashboards using Tableau, Power Bl, Dash, Plotly, Matplotlib, Seaborn

AWARDS & ACHIEVEMENTS



AI Transformations Award

Bain & Company



AI Trainer

Conducted AI fundamentals training for 250+ Bain employees



Excellence in Innovation Award

Citibank



Published 2 Research Papers

Barclays Investment Bank



Pinnacle Performer Award

Dunnhumby

CERTIFICATION

Deep Learning Specialization

Machine Learning Specialization

PyTorch for Deep Learning

TensorFlow Developer Certificate

Artificial Intelligence A-Z

Deep Learning: Natural Language Processing with Transformers

Learn LangChain, Pine cone & OpenAl: Build Next Gen LLM Apps

INTERESTS



Puzzles



Travel



Philosophy